Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Simple Green® Pro HD
Additional Names: Simple Green® Pro HD Heavy Duty Cleaner & Degreaser
Pro Grade Simple Green® Heavy-Duty Cleaner

Manufacturer’s Part Number: 13421 – 1 gallon bottle

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Beach, CA 92649 USA
Telephone: 800-228-0709 ● 562-795-6000 Monday – Friday, 8am – 5pm PST
Fax: 562-592-3830
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Irritant. This is a clear purple liquid with a chemical/detergent odor.

Routes of Exposures: Eye Contact, Skin Contact, Inhalation

NFPA/HMIS Rating:
Health = 1 = slight
Fire, Reactivity, and Special = 0 = minimal

Potential Health Effects
Eye Contact: Mildly irritating.
Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.
Ingestion: May cause stomach or intestinal irritation if swallowed.
Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas.

Medical Conditions Aggravated by Exposure: Dermally sensitive users may experience dry skin.
Target Organs: None.
Environmental Effects: Not harmful.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Percent Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>≥ 78%</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>≤ 10%</td>
</tr>
<tr>
<td>Ethoxylated Alcohol / Quaternary Amine mixture</td>
<td>Proprietary</td>
<td>≤ 5%</td>
</tr>
<tr>
<td>Propylene Glycol Butyl Ether</td>
<td>5131-66-8</td>
<td>≤ 5%</td>
</tr>
<tr>
<td>Tetrapotassium Pyrophosphate</td>
<td>7320-34-5</td>
<td>≤ 1%</td>
</tr>
<tr>
<td>Sodium Silicate</td>
<td>1344-09-8</td>
<td>≤ 1%</td>
</tr>
<tr>
<td>Colorant</td>
<td>Proprietary</td>
<td>≤ 1%</td>
</tr>
</tbody>
</table>

Section 4: FIRST AID MEASURES

If Inhaled: If adverse effect occurs, move to fresh air.
If on skin: If adverse effect occurs, rinse skin with water.
If in eyes: Flush with plenty of water. After 5 minutes of flushing, remove contact lenses, if present. Continue flushing for at least 10 more minutes. If irritation persists seek medical attention.
If ingested: Drink plenty of water to dilute.
Section 5: FIRE FIGHTING MEASURES

Flammability: Non-flammable
Flash Point: Non-flammable

Suitable Extinguishing Media: Use Dry chemical, CO2, water spray or “alcohol” foam.
Extinguishing Media to Avoid: High volume jet water.
Special Exposure Hazards: In event of fire, fire created carbon oxides and oxides of phosphorus may be formed.
Special Protective Equipment: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See section 8 – personal protection.
Environmental Precautions: Do not allow into open waterways and ground water systems.
Method for Containment: Dike or soak up with inert absorbent material.
Method for Clean Up: Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

Section 7: HANDLING AND STORAGE

Handling: Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container.

Storage: Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 115°F (46.11°C).

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values: OSHA PEL ACGIH TLV
- Triethanolamine
- Tetrapotassium Pyrophosphate

Engineering Controls: Not applicable

Exposure Controls:
Eye Contact: Use protective glasses if splashing or spray-back is likely.
Respiratory: Use in well ventilated areas.
Skin Contact: Prolonged exposure or dermal sensitive individuals should use protective gloves.
General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Purple liquid Odor: No added odor.
Physical State: Liquid Odor Threshold: Not available.
Boiling Point: 98°C (210°F) Flash Point: Not applicable
Freezing Point: 0°C (32°F) Flammability: Not applicable
Specific Gravity: 1.01 – 1.04 Autoignition Temperature: Not applicable
Evaporation Rate: 9.54% per hour Decomposition Temperature: Not applicable
Vapor Pressure: 20.7 mmHg Density: 8.34 – 8.42 lbs/gallon
Vapor Density: Not applicable Water Solubility: 100%
pH: 10.9 ± 0.8 Partial Coefficient: Not available
Section 9: PHYSICAL AND CHEMICAL PROPERTIES – continued

**VOCs:**
- CARB Method 310: 20 g/L, 0.1667 lb/gal, 2.0%
- SCAQMD Method 313: 20.4 g/L, 0.1702 lb/gal, 2.04%

**VOC Composite Partial Pressure:** 0.102207135

**Nutrient Content:**
- Nitrogen: <0.1% (0% by formula)
- Phosphorous: <0.25% (by formula)
- Sulfur: <0.1% (0% by formula)

Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).

**Reactivity:** Non-reactive.

**Conditions to Avoid:** Temperature above 115°F (46.11°C).

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** Normal products of combustion - CO, CO2; Oxides of phosphorous may occur.

**Possibility of Hazardous Reactions:** None known.

Section 11: TOXICOLOGICAL INFORMATION

**Effects of Exposure:** Not expected to be hazardous under typical use conditions.

**Acute Toxicity:**
- Oral LD\(_{50}\) (rat) > 5 g/kg body weight
- Dermal LD\(_{50}\) (rabbit) > 5 g/kg body weight

_Calculated via OECD Harmonized Integrated Classification System for Human health & Environmental hazards of Chemical Substances & Mixtures_

**Carcinogens:** No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

**Eyes:** Mildly irritating.

**Skin:** No adverse effects expected under typical use conditions.

Section 12: ECOLOGICAL INFORMATION

**Aquatic Toxicity:** Low, based on toxicology profile

**Terrestrial toxicity:** Low, based on toxicology profile

**Persistence and degradability:** Readily Biodegradable per OECD 301D closed bottle test.

**Mobility:** No data available.

**Bioaccumulation:** Not applicable.

Section 13: DISPOSAL CONSIDERATIONS

**Appropriate Method for Disposal:**
- Unused Product: *Dilute with water and dispose by sanitary sewer.*
- Used Product: *Used product may be hazardous depending on the cleaning application and resulting contaminants.*
- Empty Containers: *Triple-rinse with water and offer for recycling if available in your area.*

*Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) / Canadian TDG: Not Regulated
Section 14: TRANSPORT INFORMATION - continued

IMO / IDMG: Not classified as Dangerous  
ICAO/ IATA: Not classified as Dangerous  
ADR/RID: Not classified as Dangerous

U.N. Number Not Required  
Hazard Class: Non-Hazardous  
Proper Shipping Name: Detergent Solution  
Marine Pollutant: No

Section 15: REGULATORY INFORMATION

All components are listed on: TSCA, DSL and AICS Inventory.

SARA Title III  
Section 311/312: Not applicable.  
Section 313: Not applicable.  
Section 302: Not applicable.

State Right To Know Lists  
Triethanolamine Pennsylvania, Minnesota, Massachusetts  
CA Prop 65: None listed.

Texas ESL:  
Ethoxylated Alcohol 68439-46-3  
60 µg/m³ long term  
600 µg/m³ short term

WHMIS Classification – Non-hazardous, not clasifiable

Name None  
Toxic Substances List – Schedule 1 – CEPA None  
(Canadian Environmental Protection Act) No  
NPRI Inventory

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by Canada’s Controlled Products Regulation.

Section 16: OTHER INFORMATION

Prepared / revised by: Sunshine Makers, Inc., Regulatory Department
This SDS has been revised in the following sections: Section 9

DISCLAIMER: The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.